BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8

BR-Letter/31-8-16

AEE/ /16-17 dt-31/8/16

M. A. R. 57 (Rule 116)
Measurement Book

B

263344

Serial No. first and final bill: Premeasurements:

Name of Work Improvements roads & ~~From~~ drains in Sanjee~~To~~.. area in Ward 07

Name of Contractor of nature of Agency Kodigehalli Sub division: M.S. Venkatesh.

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Est cost	Rs. 40.00	lakhs:				
	Job code:	007-16-	000005				
	Head of Account:-	P3089					
	A.S.No:-	BBMP/CE/YNK/PR/18/15-16, dt:				20-08-15	
	T.S.No-	BBMP/CE/YNK/PR/31/15-16, dt:				21-08-15	
	Agr.No:-	No.EE/BTP/BBMP/E-PMT/Agr/212/15-16, dt:				16-02-16	
	Work Order:-	No.EE/BTP/BBMP/E-PMT/212/15-16, dt:				16-02-16	
	Date of commencement:-	18-07-16					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item.No.01:- Premeasurements recorded on: 20-07-16						
	Earthworks excavation by manual means in ordinary soil involving an average horizontal throw upto 2mts and an avg lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications:						
	7th cross:-	01	30.50	2.00	0.20	= 12.00	
		01	30.00	2.00	0.20	= 12.00	
		01	30.00	2.00	0.20	= 12.00	
		01	2.00	2.00	0.20	= 0.80	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of wor
1	2
	Cross road:
	6th cross road
	cross roads:
	5th cross: roa

NT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
on:	20-07-16		
ual means in ordinary soil			
w upto 2mtr and an avg			
evelled and sides neatly			
levelled neatly after			
ecifications:			
2.00	0.20 = 12.00		
.00	0.20 = 12.00		
.00	0.20 = 12.00		
.00	0.20 = 0.80		

M. A. R. 57 (Rule 116)
Measurement Book

No. B 263345

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Cross road:	01	14.00	1.00	0.20 =	2.80	
		01	8.00	1.00	0.20 =	1.60	
		01	31.00	1.50	0.20 =	9.30	
		01	9.00	2.00	0.20 =	3.60	
	6th cross road	01	30.00	1.50	0.20 =	9.00	
		01	22.00	1.50	0.20 =	6.60	
	cross roads:	01	21.80	1.00	0.20 =	4.36	
		01	17.00	1.00	0.20 =	3.40	
	5th cross: road	01	30.00	4.00	0.20 =	24.00	
		01	30.00	4.00	0.20 =	24.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7	8
	cross roads	01	30.00	4.00	0.20	= 24.00	
		01	5.00	4.00	0.20	= 4.00	
		01	30.00	1.00	0.20	= 6.00	
		01	6.00	1.00	0.20	= 1.20	
		01	21.00	4.00	0.20	= 16.80	
		01	7.00	2.50	0.20	= 3.50	
		01	18.00	2.50	0.20	= 9.00	
		01	20.00	1.00	0.20	= 4.00	
		01	21.00	1.60	0.20	= 4.20	
		01	21.60	2.25	0.20	= 9.48	
		01	30.00	1.00	0.20	= 6.00	
		01	30.00	1.00	0.20	= 6.00	

Serial No. .....

Name of Work .....

Name of Contractor of nature of

Date of commencement of work

Date	Full description, etc,
1	2
	culverts:
	Item No 13:-
	Lead
	by mechanical

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.10:- Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface using mechanical means and spraying primer at the rate of 0.60 kg/sqm complete as per specifications.						
	8th cross:-	01	30.00	4.60	-	= 138.00	
		01	30.00	4.60	-	= 138.00	
		01	30.00	4.70	-	= 141.00	
		01	30.00	4.50	-	= 135.00	
		01	30.00	4.50	-	= 135.00	
		01	30.00	4.50	-	= 135.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	At the r
	Item No.11:- Providing
	30mm thick with
	output of 75 tonn
	grading, premixe

NT BOOK

ensions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
imer coat with bitumen			
anular Base including			
ing primer at the rate of 0.60 kg/sqm			
per specifications:			
4·60	-	= 138·00	
4·60	-	= 138·00	
4·70	-	= 141·00	
4·50	-	= 135·00	
4·50	-	= 135·00	
4·50	-	= 135·00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263355

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	30·00	3·50	-	= 105·00	
		01	17·50	3·50	-	= 63·00	61·25
						980·60 sqm.	
	At the rate	of Rs:	31·32	→		988·25	31006·80
							30952=00
	Item No. 11:-						
	Providing and laying semi dense bituminous concrete 25mm to 30mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4·5 to 5% of mix and						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	fillers, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specifications:						
	8th cross:-	01	30.00	4.60	0.03 =	4.14	
		01	30.00	4.60	0.03 =	4.14	
		01	30.00	4.70	0.03 =	4.23	
		01	30.00	4.50	0.03 =	4.05	
		01	30.00	4.50	0.03 =	4.05	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	C&F & Mokuk 30
	At the rate
	Item No.12:- Providing

IT BOOK

ensions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
work site, laying with a			
or control to the required			
with smooth wheeled,			
achieve the desired compaction			
4.60	0.03 = 4.14		
4.60	0.03 = 4.14		
4.70	0.03 = 4.23		
4.50	0.03 = 4.05		
4.50	0.03 = 4.05		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263356

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		01	30.00	4.50	0.03 =	4.05	
		01	30.00	3.50	0.03 =	3.15	
		01	17.90 12.5	3.50	0.03 =	1.85 1.87	
					TOTAL=	29.08 cum 29.65	
	At the rate of Rs: 8475.84 →						251563.00 251309=00
						Asstt. Y. N. D AE(W4)	
	Item No.12:- Providing and laying of hot applied thermoplastic compound						

C&F Mohanlal 30/8/16

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2.5mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC: 35:						
	8th cross:-						
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
		02	30.00	0.10	-	= 6.00	
					TOTAL=	36.00 Sqm	17107.20
	At the rate of Rs: 475.20 →						

Ashfully. N.D
AE (W7)

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.07:-
	Providing and
	granite jelly of rea
	and well compacted
	finish in CM 1:3, with
	steel, fabrication a
	7th cross:

pth 6	Contents 7	Reference to last Measurement 8
	eed at 250 gms per urface applied glass	
=	6.00	
=	6.00	
=	6.00	
=	6.00	
=	6.00	
=	6.00	
	36.00 sqm	17107.20

Y.N.D
E(W7)

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263357

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.07:- Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete (exclusive of cost of steel, fabrication and plastering, charges).						
	=Thereof:	01	30.00	5.00	0.10 =	15.00	
		01	30.00	5.00	0.10 =	15.00	

E.E. (31/8)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	30.00	5.00	0.10 =	15.00	
		01	2.00	5.00	0.10 =	1.00	
	cross roads:	01	14.00	2.50	0.10 =	3.50	
		01	8.00	1.00	0.10 =	0.80.	
		01	31.00	1.50	0.10 =	4.65	
		01	9.00	2.00	0.10 =	1.80.	
	6th cross:-	01	30.00	3.50	0.10 =	10.50	
		01	22.00	3.50	0.10 =	7.7	
		01	31.00	3.00	0.10 =	9.30	
		01	21.80	3.00	0.10 =	6.54	
		01	17.00	1.20	0.10 =	2.04	
	5th cross:-	01	30.00	4.00	0.10 =	12.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Dead end road:

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
5·00	0·10 =	15·00	
·00	0·10 =	1·00	
·50	0·10 =	3·50	
·00	0·10 =	0·80	
50	0·10 =	4·65	
·00	0·10 =	1·80	
50	0·10 =	10·50	
50	0·10 =	7·7	
00	0·10 =	9·30	
00	0·10 =	6·54	
0	0·10 =	2·04	
00	0·10 =	12·00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263358

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
		01	30·00	4·00	0·10 =	12·00	
		01	30·00	4·00	0·10 =	12·00	
		01	5·00	4·00	0·10 =	2·00	
		01	30·00	4·10	0·10 =	12·30	
		01	6·00	4·10	0·10 =	2·46	
		01	21·00	4·00	0·10 =	8·40	
		01	7·00	2·50	0·10 =	1·75	
	Dead end road:-	01	18·00	2·50	0·10 =	4·50	
		01	20·00	3·60	0·10 =	6·00	
		01	21·00	4·10	0·10 =	8·61	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Checked. 31/8/18 D.E. (Sanitation) Main roads:	01	21.00	4.00	0.10 =	8.40	
		01	30.00	1.50	0.10 =	4.50	
		01	30.00	1.50	0.10 =	4.50	
		01	18.00	1.50	0.10 =	2.70	
		01	32.00	2.00	0.10 =	6.40	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	
		01	30.00	3.50	0.10 =	10.50	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	Main roads

MENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 105.00	
00	3.50	-	= 91.00	
	3.50	-	= 105.00	
	3.50	-	= 105.00	
	3.50	-	= 105.00	
	3.50	-	= 105.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263362
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	C/F	01	30.00	3.50	-	= 105.00	
		01	30.00	3.50	-	= 105.00	
		01	12.00	3.50	-	= 42.00	
					TOTAL =	3822.00 Sq m	
	At the rate of Rs.		97.00 →				371498.00
						Recd 14 ND AE (WT)	
Item No.09:-	Providing groove cutting for width of 5mm to 10mm and						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	depth 80mm - 100mm including cost of cutting machine, generator, and item of machinery, including cost of blade, coolant etc, including cleaning of groove, and providing sand & hot bitumen fillers and filler metal etc, including cost of conveyance of all materials, labour, load and lift charges and all other incidental charges as per drawing:-						
	Thickness:-						
		02	5.00	-	-	= 10.00	
		02	2.50	-	-	= 5.00	
		03	1.00	-	-	= 3.00	
		03	1.50	-	-	= 4.50	
		03	3.50	-	-	= 4.00	

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, et
1	2

At the r

OOK

	Depth 6	Contents 7	Reference to last Measurement 8
ing machine, generator, blade, coolant etc,			
ding sand & hol			
uding cost of conveyance charges and all other			
	-	= 10.00	
	-	= 5.00	
	-	= 3.00	
	-	= 4.50	
	-	= 4.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....263363
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		02	3.00	-	-	= 6.00	
		02	3.00	-	-	= 6.00	
		05	4.00	-	-	= 20.00	
		05	2.50	-	-	= 12.50	
		03	2.50	-	-	= 7.50	
	C/F measurements	02	3.00	-	-	= 6.00	
		02	4.10	-	-	= 8.20	
		03	4.00	-	-	= 12.00	
						114.40	30/8/16 Lohpully .N.D AE(WA)
	At the rate of Rs.	124.20	→				sq.m 14208.45
					Grand total =		3757674.00. 3756543.20

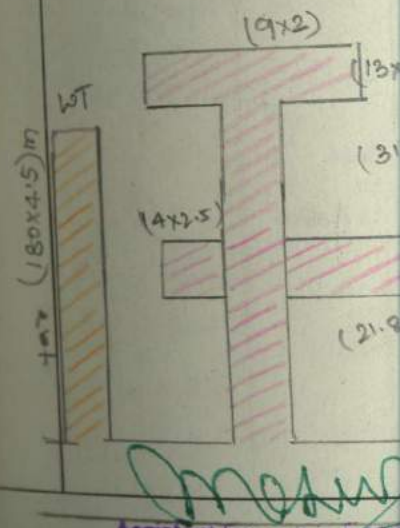
MEASUREMENT BOOK

Royalty charges

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Sl. No.	Details qty / Unit	co-eff	Jelly qty	co-eff	sand qty	cement co-eff	qty:
02.	WMM = 240.05 / cum	-	240.05	-	-	-	-
03.	40mm ↓size = 1.80 / cum.	0.96	1.73	0.48	0.86		
01.	SDBC = 29.68 / cum	1.4	41.55	-	-	-	-
07.	RMC = 475.54 / cum:	0.85	404.20	0.416	197.82	-	-
	TOTAL		687.53		198.68		
	ABSTRACT: -						
1)	Coarse Aggregates:-	687.53 X					
2)	Fine Aggregates:-	198.68 X					

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2



Assistant Executive Engi
Nedigehalli Sub Divisio

T BOOK

ions		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
sand		cement:	
-eff	Qty	Co-eff	Qty:
-	-	-	-
48	0.86		
-	-	-	-
416	197.82	-	-
	198.68		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263364

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		WT 2	18x1.5				
			(9x2)				
			(13x1.5)				
		WT					
			(31x3)m	32x2			
					4x2.5		
			(93x4)				
			(14x2.5)				
			(21.8x3)				
			(18.4x 2.5)				
			(51.9x3.5)				
					(16x4.1D)		
					21x4		

L1 = 21 x (3 + 4.5)

L2 = (21 x 4.1) m

L3 = (20 x 3) m

L4 = (18 x 2.5) m.

Asphalt road:

concrete road:

Assistant Executive Engineer
Kadugodi Sub Division

PLAN

Park

AE (WT)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CERTIFICATE:-						
	1) Certified that the work done by the contractor is satisfactory.						
	2) Certified that debris has been removed from the work spot.						
	AE(W7)						
	Assistant Executive Engineer Kodigehalli Sub Division Bruhat Bangalore Palike						

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc,
1	2

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8

ntractor is satisfactory.

from the work spot.

Engineer
Sub Division
a Palike

M. A. R. 57 (Rule 116)
Measurement Book

B

263365

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	ಬಿಲ್ಲು ಮೊತ್ತ ರೂ 3756543=00 ಗುತ್ತಿಗೆ ಪಡೆದ ಪಾಲಿಕೆ ಇಷ್ಟರವರೆಗೆ ರೂ 3094794=00 ಹಣವನ್ನು ಪಾವತಿಸಲು ಉಳಿದ ಮೊತ್ತ ರೂ 34,46,749=00 ಬಿಲ್ ಮುಂಚಾಗಿ ಕಾಣಿಸಲಾಗಿದೆ Krishnaprasad ಲೆಕ್ಕಾಧಿಕಾರಿ ಮುಖ್ಯ ಅಧಿಕಾರಿ ಅಥವಾ ಸಹಾಯಕ ಆಯುಕ್ತರು					IT – 37565 – VAT – 150262 – Lab – 37565 – CBF – 3757 – Roy – 80645 – 3094794=00	

17/9/16.